



#### FloridaNet Project Status Update

Florida Police Chiefs Association January 12, 2016



### **Topics**

- Brief Overview
- FirstNet
- FloridaNet
- Looking Ahead

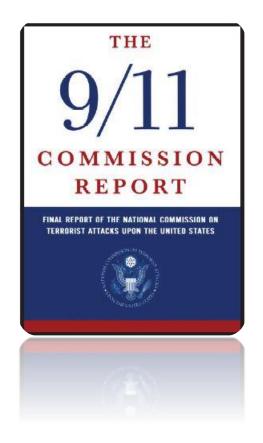


### **Brief Overview**



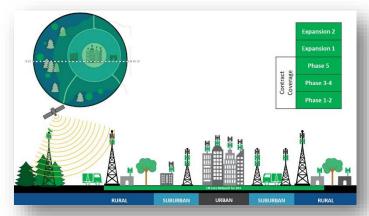
# Middle Class Tax Relief and Job Creation Act of 2012

- Developed from the 9/11 Commission Report
- "Spectrum Act"
- Devoted 20MHz of 700MHz spectrum to Public Safety
- Established the First Responder Network Authority ("FirstNet")



### Nationwide Public Safety Broadband Network (NPSBN)

- Based on Long Term Evolution (LTE) standards
- Mandated to meet "rural milestones"
- Priority and Preemption capabilities
- Funded by leasing excess capacity
- 5 Phases of build-out
- FirstNet must build the Core
- States may build the Radio Access Network (RAN) within their geographic boundary ("opt-out")





### FirstNet



#### FirstNet Overview

- (Quasi) Independent authority in DOC's NTIA
- Establishing mission-critical data communication network as Nationwide Public Safety Broadband Network (NPSBN)
  - Allocated \$7 Billion from Advanced-Wireless-Services 3 auction
  - Must hold State Consultations to develop policies and requirements
  - Must consult with the Public Safety Advisory Council (PSAC)
  - Must be financially self-sustaining
  - May be influenced by the Public Safety Communications Research group (PSCR) and the National Public Safety Telecommunications Council (NPSTC)



#### FirstNet Developments

- Organizational Changes
- Completed State Consultations (1<sup>st</sup> Round)
- Held two Industry Days
- Held two State Single Point of Contact (SPOC) meetings
- Released:
  - 1 Request for Information (RFI)
  - 3 Requests for Comments (RFCs)
  - Draft RFP
  - Draft Cyber Security Appendix
  - 1st & 2nd Interpretations
- Will release Final Request for Proposal (RFP)



### Requests for Information (RFI)

- In 2013, FirstNet released 12 RFIs seeking input on various equipment and technology applications
- In 2014, FirstNet incorporated info learned from the previous RFIs and then asked for specific info on industry capabilities and business models
- This current RFI sought answers regarding:
  - Buildout, deployment, operations and maintenance of the Network
  - · Cost considerations and financial sustainability
  - Speed to market
  - System hardening and resiliency
  - Use of existing governmental infrastructure
  - Priority and preemption
  - Customer care and marketing
  - General compliance with the Act



### Requests for Comment (RFC)

- FirstNet sought comments on the following:
  - 1st Core and RAN, legal scope of users, service offerings, RFP process, tech requirements, rural milestones, leveraging existing infrastructure, and fees
  - 2<sup>nd</sup> Devices, network policies, FirstNet Plan and State-built RAN
  - 3<sup>rd</sup> Definition of "Public Safety Entity"



### Draft Request for Proposal (RFP)

- FirstNet sought feedback on:
  - FirstNet's approach to serving public safety
  - Deployment and operation of the Network
  - Proposed financial sustainability model
  - Operation architecture



### Cyber Security Notice

- Outlines key considerations for foundation
  - · How it should be designed, established, sustained
- Opportunity to innovate and be creative
- Key Concepts
  - Architecture and Lifecycle
  - Risk Management
  - Monitoring and Mitigation Methodology
  - Environmental and Physical Security
  - Data Sensitivity



### Final Interpretation – 1<sup>st</sup> Notice

- Core Network and RAN defined
  - FirstNet will be the only one allowed to build the Core
- Secondary users defined
  - Any non-public safety user
  - Through Priority and Preemption, FirstNet believes
     20MHz will provide sufficient capacity for shared use
- Rural defined
- Fees Assessed
  - Network user fee, Network capacity fee (CLA), Network equipment/infrastructure fee, State fee to access Core



### Final Interpretation – 2<sup>nd</sup> Notice

#### Technical Requirements

- Promoting competition for equipment 'on' the network
- Equipment must maintain interoperability
- Applies to either FirstNet-built or State-built RAN

#### Network Policies

- Applies to all elements of the network, whether FirstNetdeployed or State-deployed
- State/Territory Assuming Responsibility
  - Governor makes statewide decision
  - Opt-in States can add extra RAN
  - A State opts-in if it does not opt-out within 90 days





### FloridaNet



#### FloridaNet Past Activities

- Established Governance structure:
  - Executive Committee
  - Technical Committee
- Responded to:
  - FirstNet's Request for Information (RFI)
  - 3 Requests for Comments (RFCs)
  - Draft RFP
  - Draft Cybersecurity Appendix
- Completed a Statewide Contract Vehicle Survey and published a White Paper



#### FloridaNet Executive Committee

- CHAIR: Terry Rhodes
- Governor's Office: Jason Allison
- Homeland Security Advisor: Donna Uzzell
- FPCA: Daniel Alexander
- Seminole Tribal Rep: Bobby Brown
- Miccosukee Tribal Rep: Ray Weeks
- FSA: Steve Casey
- **DMS**: Bill Rogers
- DEM: Phil Royce, SWIC
- **DOH:** Mike McHargue
  - Ex Officios: Dr. Joe Nelson, John Wilgis,
  - April Henkel, Dr. Peter Pappas
- Technical Committee Chair: Greg Holcomb
- DEO: Sherri Martin
- Private Sector: Mike Sole (FPL)
- State-wide EMS Representative: Greg Rubin
- FL Army National Guard: Major Ralph Sullenberger
- DOT: Paul J. Steinman, P.E.



#### FloridaNet Technical Committee

- CHAIR: Greg Holcomb (Lake County Public Safety)
- Region I: George Hawkins (Santa Rosa County)
- Region II: Nicholas Simoncini (FDLE)
- Region III: Alphonso Gordon (Marion County)
- Region IV: Terry Nehring (City of Tampa)
- Region V: Richard Steiner (Orange County)
- Region VI: Bob Finney (Collier County Sheriff's Office)
- Region VII: Cindy Cast (Miami-Dade County)
- UASI: Norm Poe (Orlando)



#### **Education & Outreach**

- Performed listening sessions and workshops
- Developed education and outreach materials
  - Brochures
- Created a website <u>www.FloridaNet.gov</u>
- Presented at several FirstNet-related events
- Attended various conferences (e.g. IWCE, APCO)



### Request for Information (RFI)

#### Florida's Response

- Build, deploy, operate and maintain the Network
  - Tech requirements should meet needs of state
- Speed to market
  - Meeting public safety needs is more important that speed
- System hardening
  - Prioritize facilities, harden against cyber attacks, and compliment local solutions
- Priority and preemption
  - Needs to be determined between FirstNet and State
- Customer care and marketing
  - FirstNet should collaborate with the State to deliver the best service

### Requests for Comment (RFC)

#### Florida's Response

- 1<sup>st</sup> Network, users, request for proposal (RFP) and fees
  - Network Should be flexible
  - Users States should determine
  - RFP FirstNet should continue to consult with the states
  - Fees Opting out should only require a core and spectrum use fee
- 2<sup>nd</sup> Devices, policies and plans
  - Devices Must operate seamlessly across the Network, backwards compatible, must have competitive ecosystem
  - Network Policies Commercial partners should shape tech requirements, Public safety should determine operational requirements
  - FirstNet plan vs. State-built plan Criteria should be shared, FirstNet must consult directly with states rather than just through notices and process for opting out seems undesirable
- 3<sup>rd</sup> "Public Safety Entity" definition
  - Should be established through the Public Safety Advisory Committee (PSAC), direct consultations with states, local public safety users
  - Individual States should assign priority, preemption and access rights

### Draft Request for Proposal (RFP)

#### Florida's Response

- Responded on July 27, 2015
- Commented on 51 of the 647 areas in the Operational Architecture
- Florida suggested the Network Policies should be:
  - Developed by the State
  - Implemented by the Vendor
  - Measured & Enforced by FirstNet



# Cyber Security Notice Florida's Response

- Key Concepts:
  - Risk Management
    - Defining acceptable risk
    - Viability of mitigation
  - Environmental and Physical Security
    - Hardening
    - "Disparately Deployed"
  - Information Security and Data Sensitivity
    - Prevention and Protection
    - Retention Policies

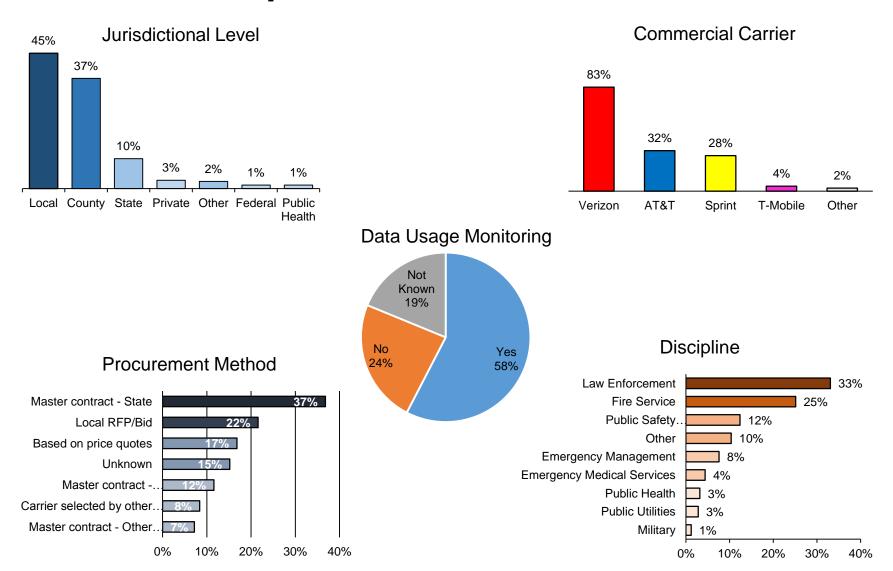


### Contract Vehicle Survey

- Conducted Survey from January to September
- Aggregated Survey info and sent to FirstNet
- Produced White Paper



### White Paper Results



### White Paper Results (cont'd)

Region	Surveys Sent (#)	Response Rate (%)	Counties Represented (#)	Highest Population	Lowest Population	Average Population Density	Most Common Carrier	Most Common Procurement Method	Devices per Employee	Organizations Monitoring Data (%)	Organizations Requiring Multiple Carriers (%)	Price per Device per Month	Most Common Data Plan	Most Common Mission Critical Application
1	45	44%	5 of 10	305,817 (Escambia)	14,625 (Calhoun)	157	Verizon (85%)	Master Contract – State (35%)	2 (55%)	45%	15%	\$50 or Less (73%)	Unlimited (80%)	Internet Browsing (79%)
2	76	22%	8 of 13	275,487 (Leon)	8,365 (Liberty)	67	Verizon (100%)	Master Contract – State (41%)	2 (44%)	41%	24%	\$50 or Less (81%)	Unlimited (89%)	One-way Messaging (63%)
3	70	46%	11 of 13	885,855 (Duval)	15,535 (Union)	228	Verizon (81%)	Master Contract – State (35%)	2 (31%)	59%	21%	\$50 or Less (74%)	Unlimited (82%)	One-way Messaging (74%)
4	110	23%	7 of 8	1,291,578 (Hillsborough)	27,731 (Hardee)	838	Verizon (92%)	Master Contract – State (28%)	2 (52%)	52%	28%	\$50 or Less (91%)	Unlimited (83%)	Internet Browsing (84%)
5	192	58%	9 of 9	1,253,001 (Orange)	141,994 (Indian River)	573	Verizon (75%)	Master Contract – State (28%)	2 (35%)	57%	51%	\$50 or Less (76%)	Unlimited (79%)	One-way Messaging (79%)
6	79	36%	9 of 10	661,115 (Lee)	12,884 (Glades)	253	Verizon (85%)	Master Contract – State (39%)	2 (36%)	55%	15%	\$50 or Less (87%)	Unlimited (90%)	Internet Browsing & One-way Messaging (78% each)
7	94	34%	4 of 4	2,662,874 (Miami-Dade)	73,090 (Monroe)	892	Verizon (84%)	Master Contract – State (41%)	2 (36%)	81%	31%	\$50 or Less (80%)	Unlimited (75%)	CAD Interface (84%)
Total	566	38%	53 of 67	2,662,874 (Miami-Dade)	8,365 (Liberty)	430	Verizon (86%)	Master Contract – State (35%)	2 (41%)	56%	26%	\$50 or Less (80%)	Unlimited (83%)	One-way Messaging (73%) Internet Browsing (69%)

This presentation was prepared by FloridaNet using funds under award 12-10-S13012 from the National Telecommunications and Information Administration (NTIA), U.S. Department of Commerce (DOC). The statements, findings, conclusions, and recommendations are those of the author(s) and do not necessarily reflect the views of the NTIA, DOC, or FirstNet.

#### **Data Collection**

- Determined agencies with data monitoring software
  - Reached out to those agencies to provide data
- Determined minimum data to collect
  - e.g. location, responder type, time, applications
- Submitted initial data to FirstNet by 9/30/15
  - 90 files (616MB) were sent
- Continue to send data to FirstNet
  - Netmotion
  - Agencies that submit to FloridaNet
- Develop vendor specifications for data collection
  - Deliverable timelines, data formats, etc.
- Begin vendor data collection effort in 2016







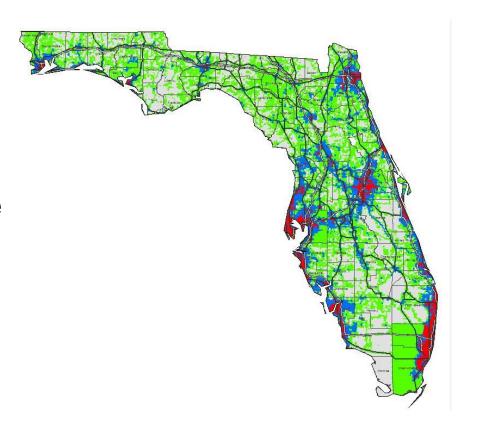
#### FirstNet Data Review

- Sensitive Information
  - Bidders' Library/Reading Room States' data possibly available for others to view
- Coverage Objectives and Phasing
  - FL provided some of the most detailed response info
  - No phased deployment provided yet
- User Surveys
  - FL provided detailed survey data for about 400 agencies
  - Use of ranges in survey present challenges in aggregating data
  - Need assistance with user amounts and definition
- Total User Estimates
  - Not provided



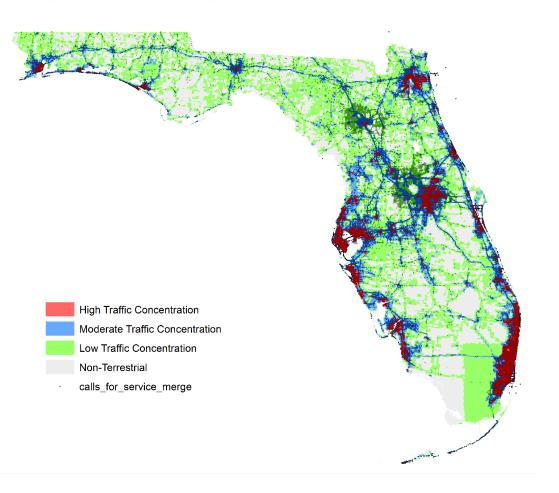
#### Original Baseline Coverage Objective Map

- Given to Florida in April
- Part of Draft RFP
- Indicated where FirstNet would base their final RFP if Florida did not give more data to FirstNet
- Concentrations
  - Red High
  - Blue Moderate
  - Green Low



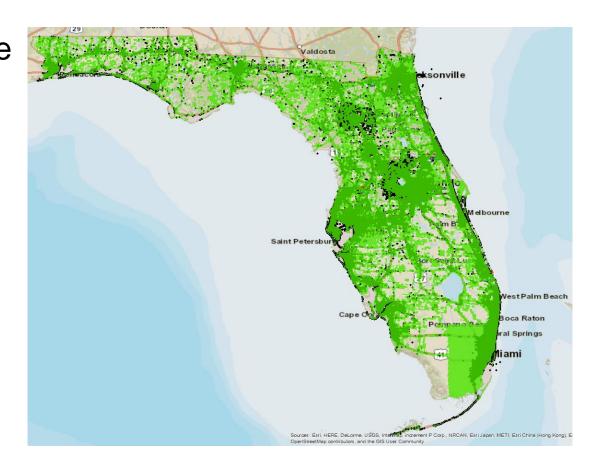
#### Objectives on Top of Response Data

- Calls for service were merged onto original map
- Will be included in FirstNet's RFP

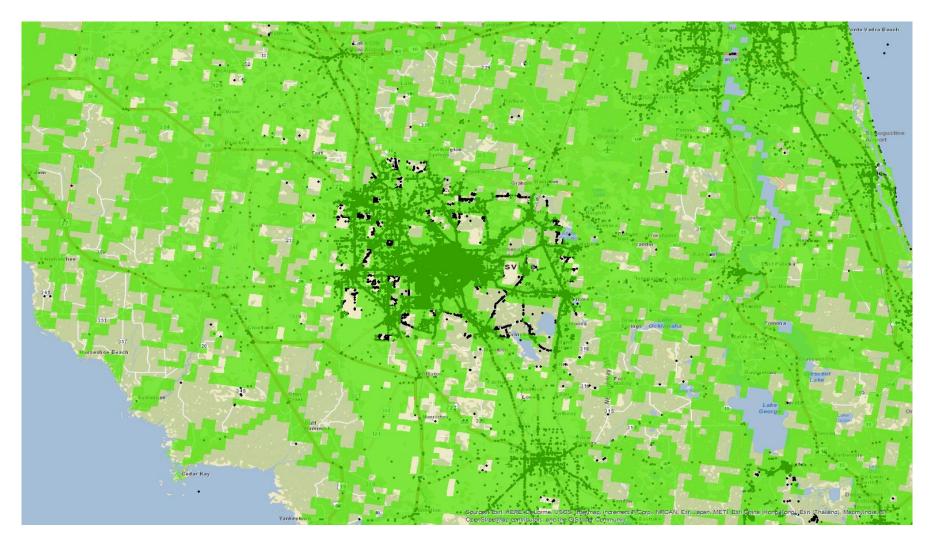


#### Statewide

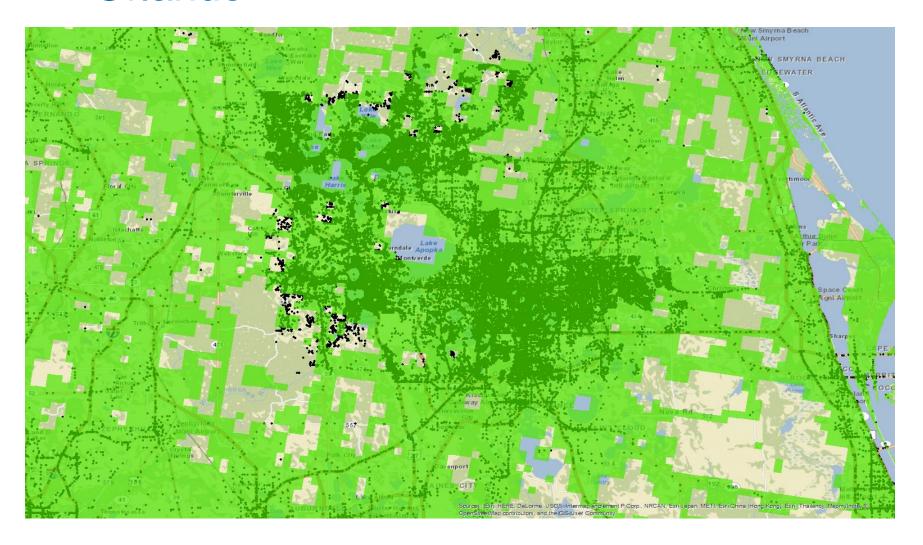
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#### Gainesville

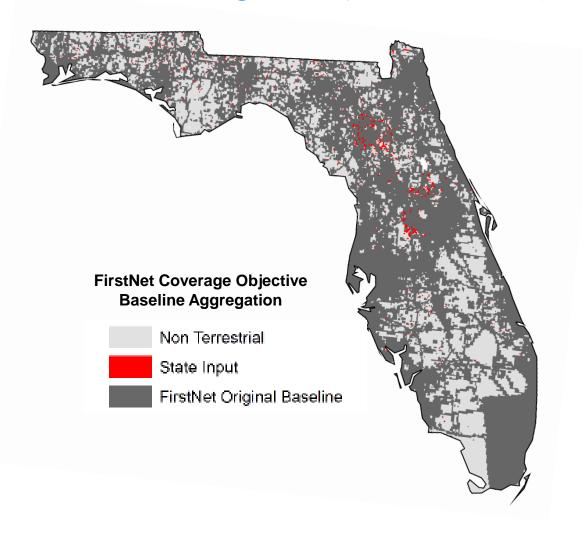


#### Orlando



#### Updated Baseline Coverage Objective Map

- All data submitted to FirstNet was inserted into original baseline coverage objective map
- Red dots indicate input that FirstNet did not have



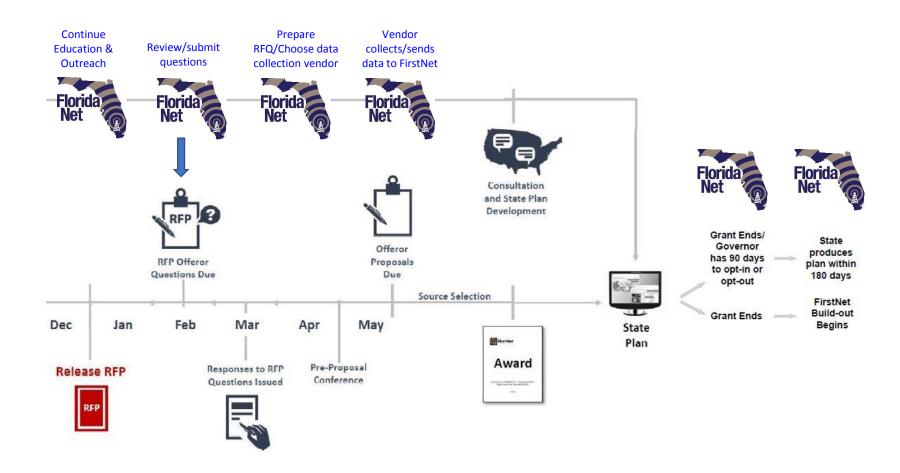


## Looking Ahead



### Project Plan

#### FirstNet and FloridaNet



### **Upcoming Events**

January 2015	FirstNet RFP Released (tentative)
January 9-12, 2016	Florida Police Chiefs Association Conference (Ponte Vedra Beach, FL)
January 11-15, 2016	Southeast Public Safety Broadband Summit (Alabama)
March 21-25, 2016	International Wireless Communications Expo (Nevada)
April 8, 2016 (tentative)	Executive Committee Meeting (online)
April 8, 2016 (tentative)	Technical Committee Meeting (online)

If there are any events in your area that you would like us to attend or present, please let us know!

### Next Steps

- Continue to collect data
- Prepare Data Collection RFQ
- Continue Education & Outreach
- Prepare for Consultation with FirstNet on State Plan



### How You Can Help

- Visit FirstNet or FloridaNet website and learn more about the project
- Become a member of FloridaNet
- Take our Contract Vehicle Survey online
- Let us know if you have a data monitoring tool
- Provide collected data to ensure a better state plan
- Spread the word



#### Comments/Questions?



#### Please visit our website:

www.FloridaNet.gov

Or contact us at:

FloridaNet@flhsmv.gov



## Thank You